

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number  
**WO 2004/111670 A1**

(51) International Patent Classification<sup>7</sup>: **G01R 33/34**

(21) International Application Number:  
PCT/IB2004/001843

(22) International Filing Date: 28 May 2004 (28.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/478,296 13 June 2003 (13.06.2003) US

(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL];  
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHMIELEWSKI, Thomas** [US/US]; 595 Miner Road, Cleveland, Ohio 44143 (US). **CARLON, John, T.** [US/US]; 595 Miner Road, Cleveland, Ohio 44143 (US).

(74) Common Representative: **KONINKLIJKE PHILIPS ELECTRONICS N.V.**; c/o LUNDIN, Thomas, M., 595 Miner Road, Cleveland, OH 44143 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

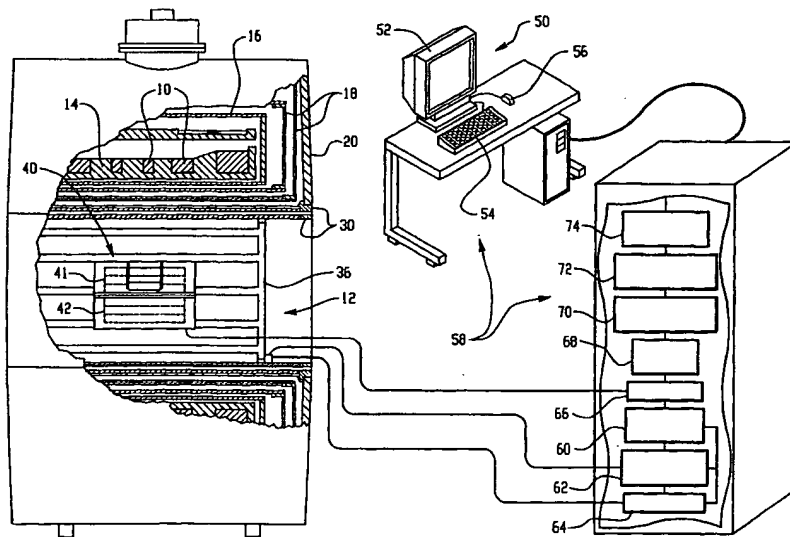
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CONNECTION SYSTEM FOR SPLIT-TOP RF COILS



(57) Abstract: A split-top RF coil is provided. The split-top RF coil includes a first housing (80) having a first RF coil portion (41) disposed therein and a second housing (84) having a second RF coil portion (42) disposed therein. A plurality of slides (100) are disposed on at least one of the housings and a plurality of slide tracks (101) are disposed on the housing opposite the slides for receiving the slides. The first and second housings are mechanically coupled via the slides and slide tracks. The RF coil also includes a plurality of electric connector pins (110) disposed on at least one of the housings and a plurality of pin receivers (111) disposed on the housing opposite the pins for receiving the conductor pins. Electric connections between the first and second coil RF coil portions are made via the pins and receivers.